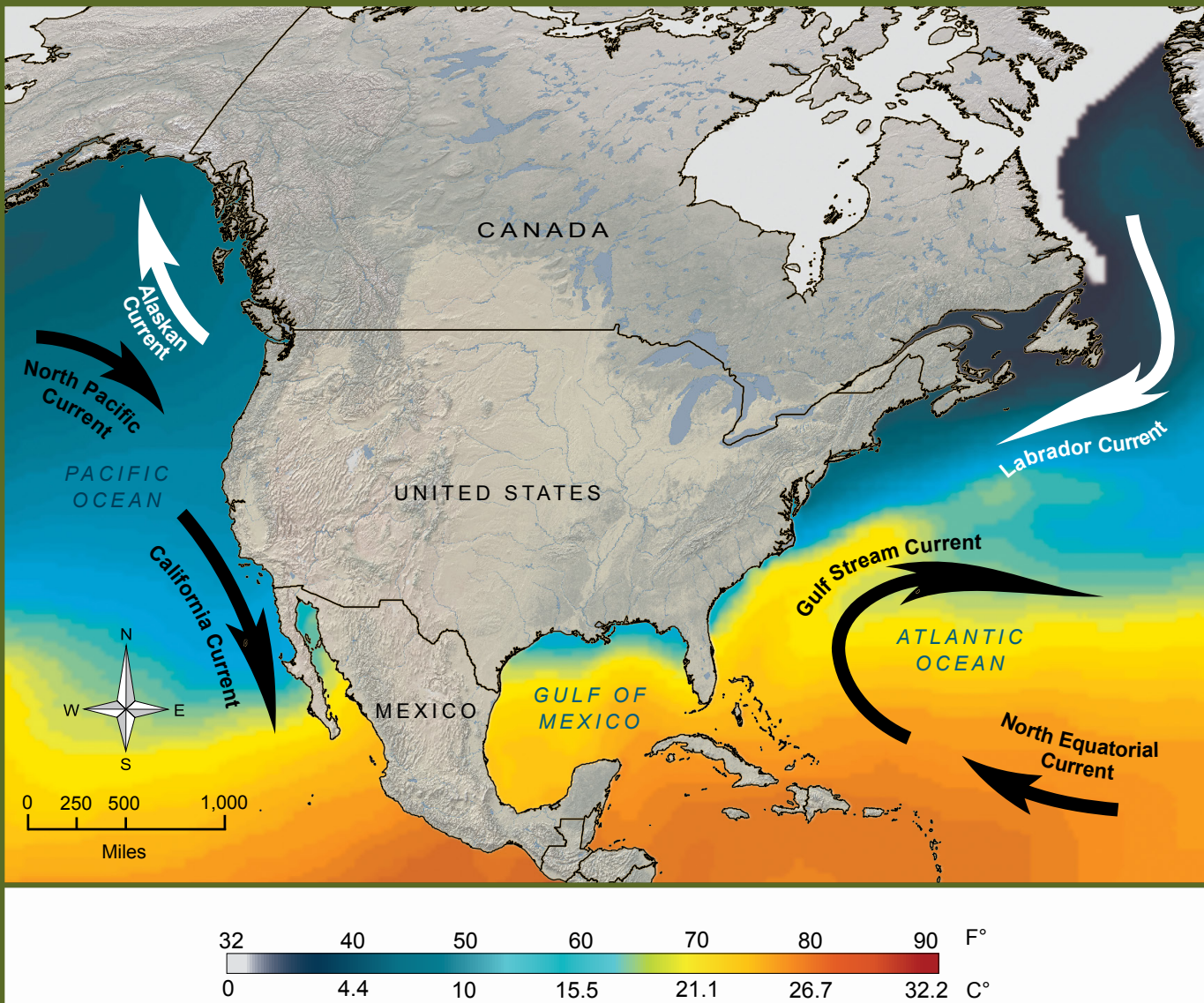
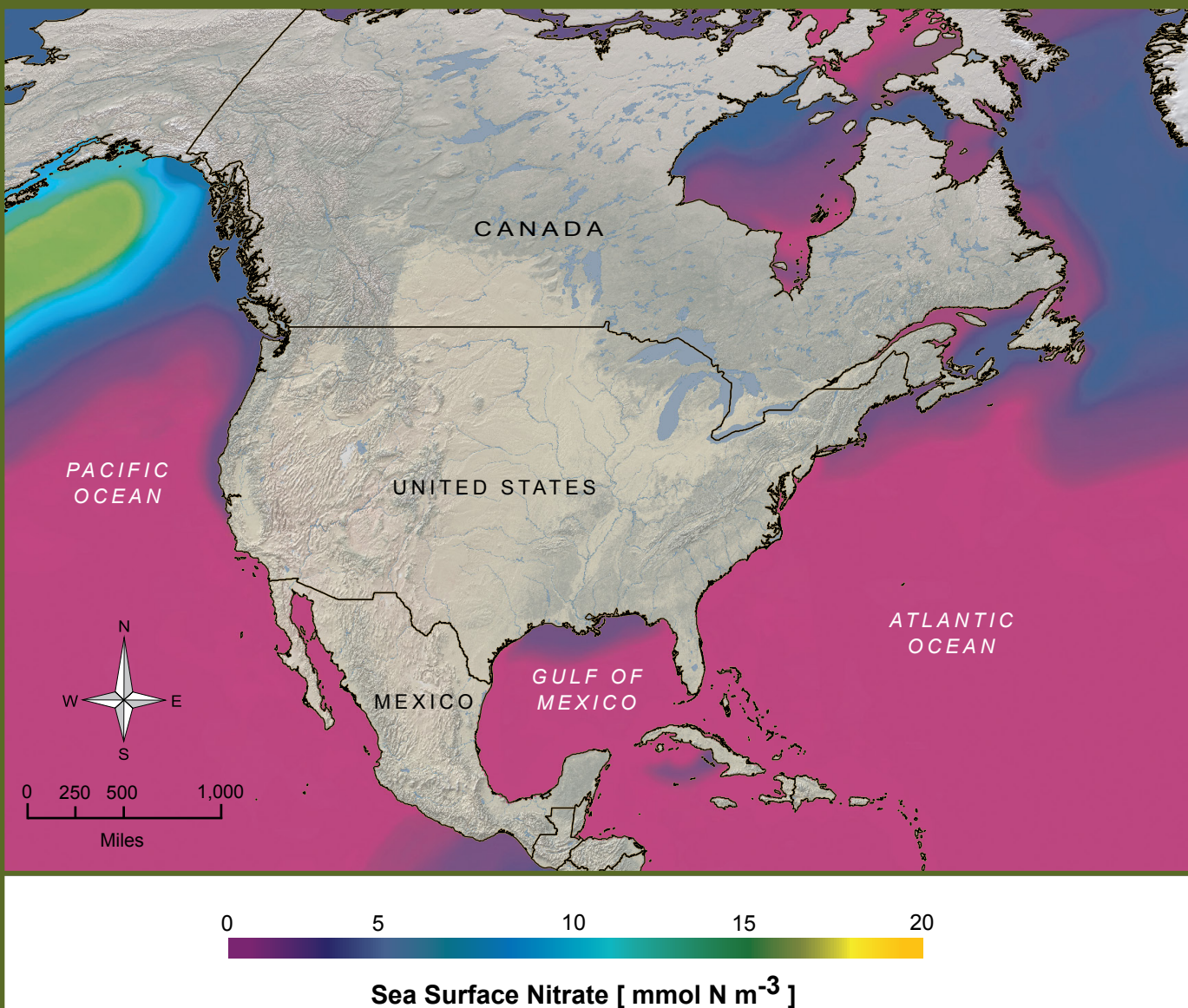


VA #1 Sea Surface Temperatures—North America



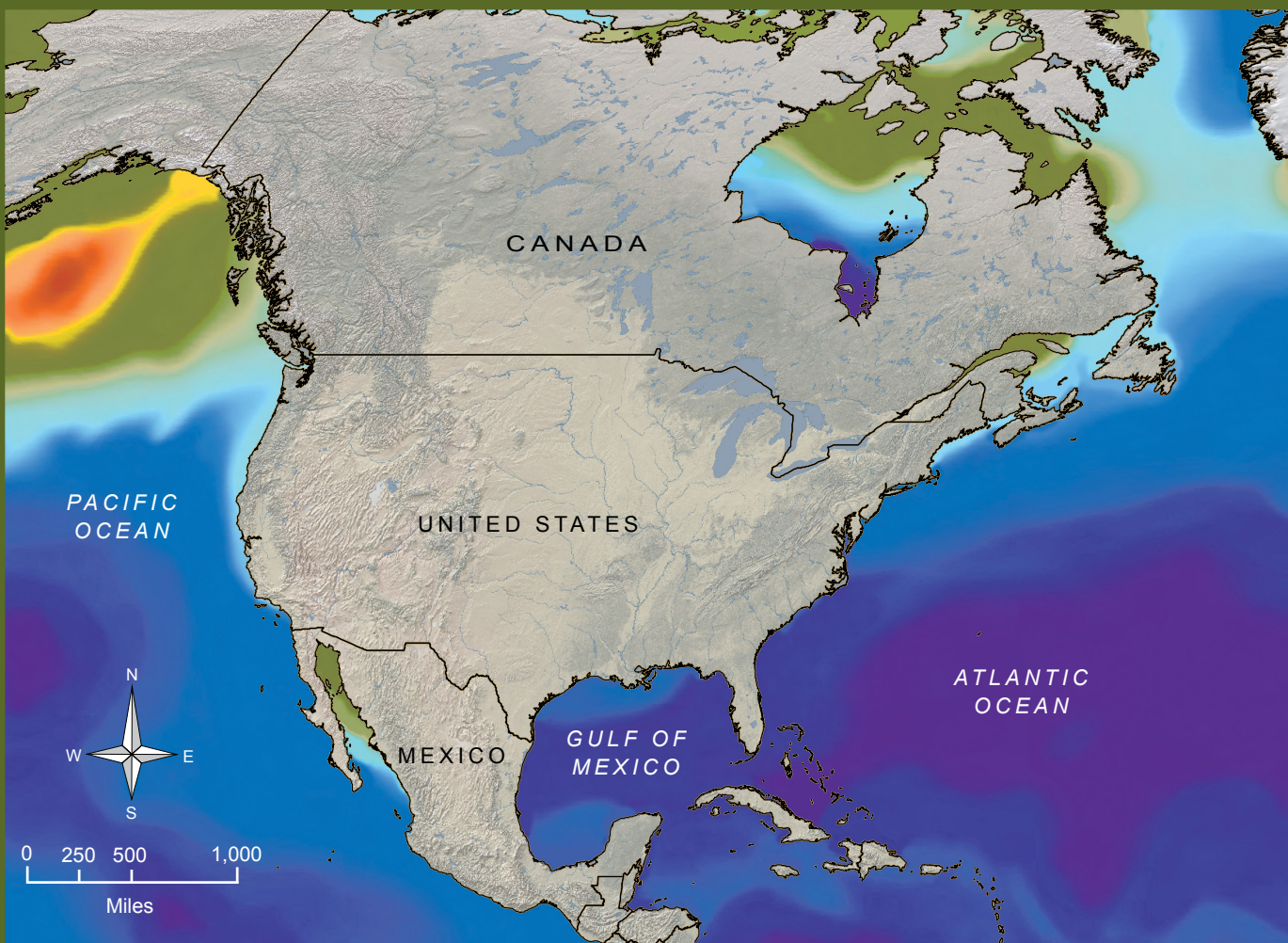
Source: National Oceanic and Atmospheric Administration (NOAA)/National Environmental Satellite, Data, and Information Service (NESDIS)

VA #2 Ocean Nitrates—North America



Source: National Oceanic and Atmospheric Administration (NOAA)/National Environmental Satellite, Data, and Information Service (NESDIS)

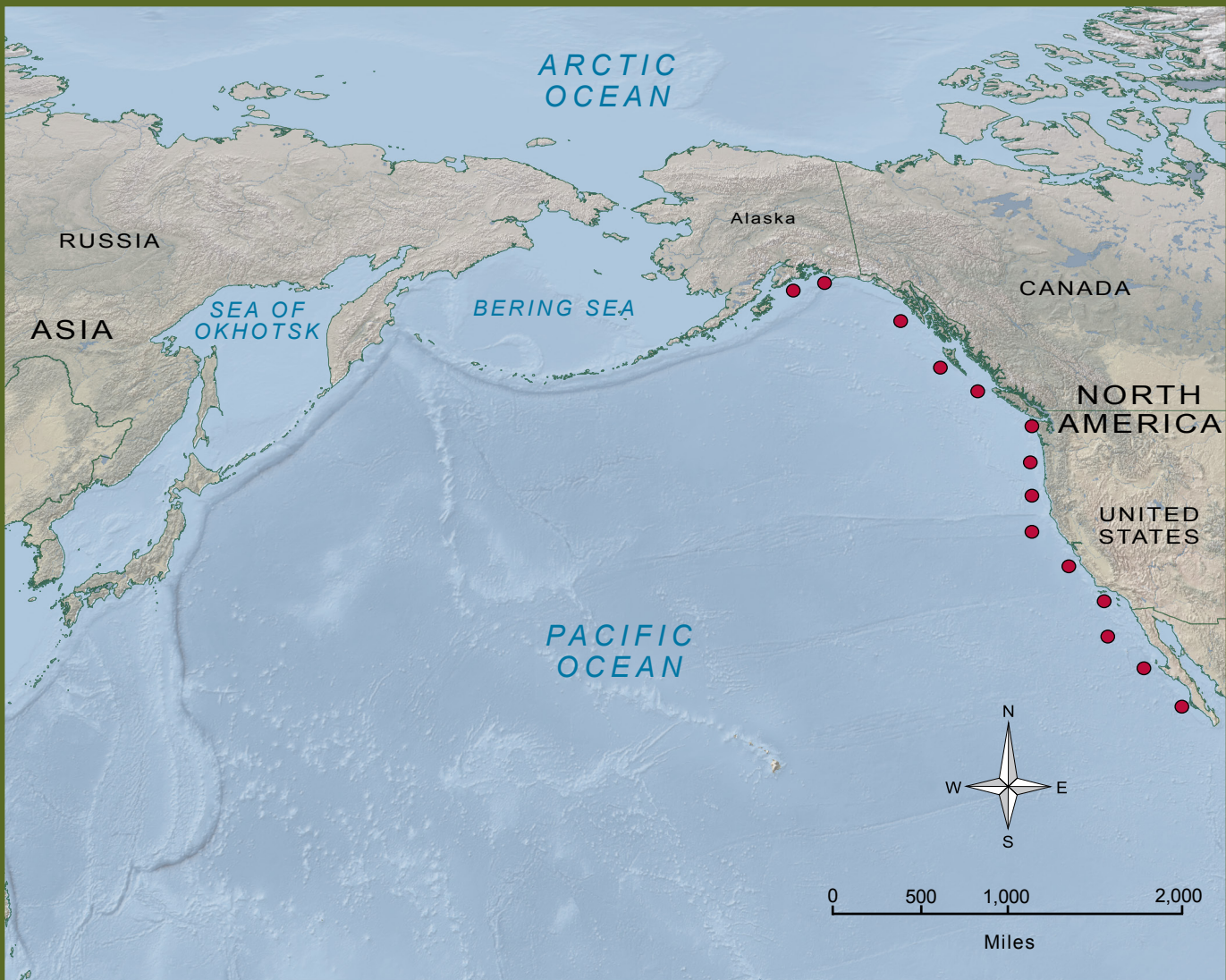
VA #3 Ocean Phosphates—North America



Sea Surface Phosphate [mmol P m^{-3}]

Source: National Oceanic and Atmospheric Administration (NOAA)/National Environmental Satellite, Data, and Information Service (NESDIS)

VA #4 Pacific Ocean Upwellings



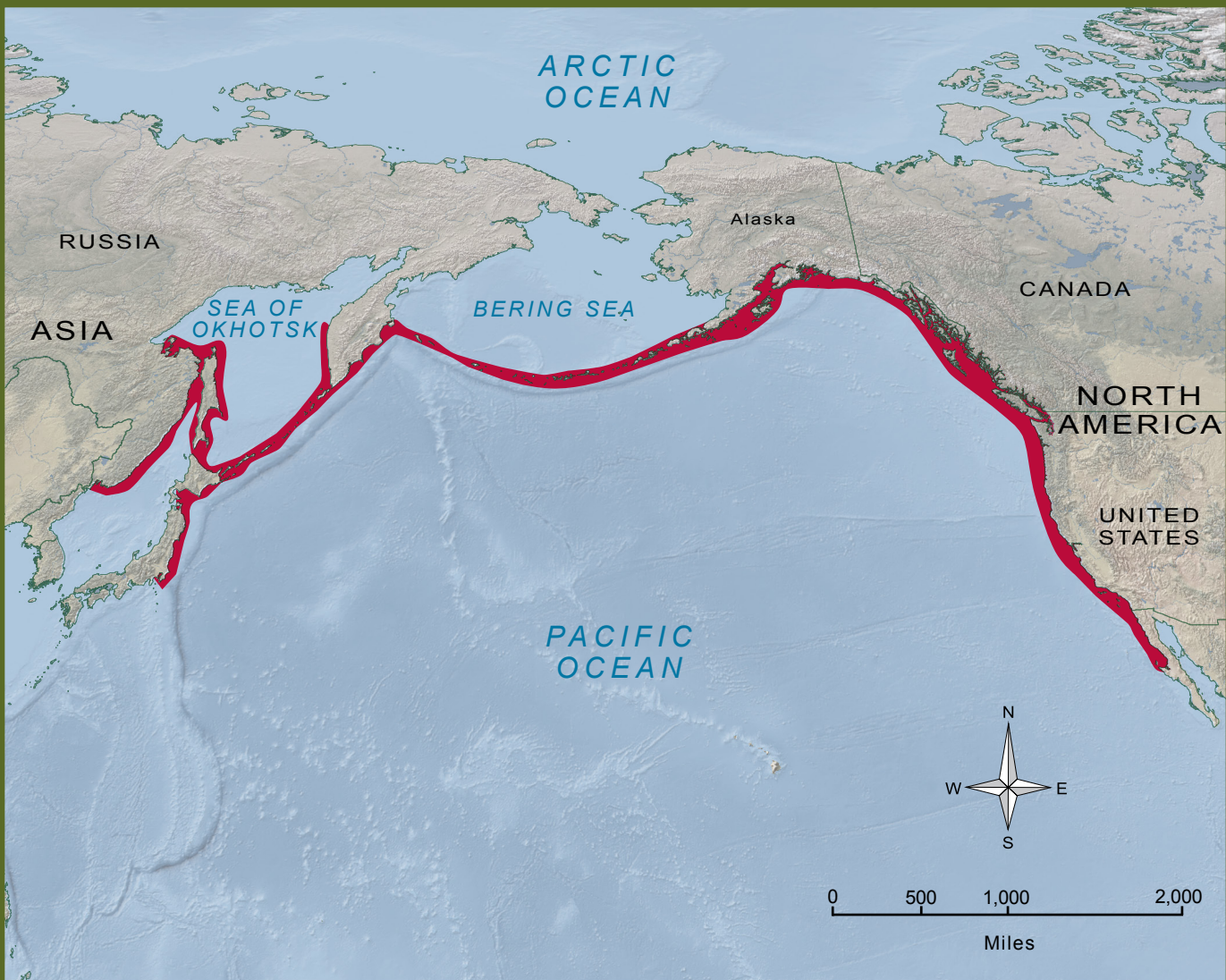
● Locations of ocean upwellings

VA #5 Kelp Forests



Distribution of kelp forests

VA #6 Historical Distribution of Sea Otters



Historical distribution of sea otters

VA #7 Phenotype Variation in Rock Pocket Mice



Light and dark rock pocket mice (*Chaetodipus intermedius*) from the Pinacate area of Arizona on light and dark substrate (rocks).



VA #8 Predation and Guppy Body Size

Pool 1–Killifish and Guppies

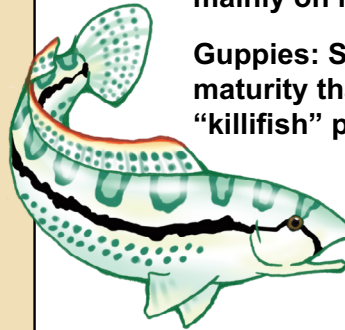


Predator: Killifish;
preys mainly on
small guppies.



Guppies: Larger at sexual maturity
than in “pike-cichlid” pools.

Pool 2–Pike-cichlid and Guppies



Predator: Pike-cichlid; preys
mainly on large guppies.

Guppies: Smaller at sexual
maturity than those in
“killifish” pools.



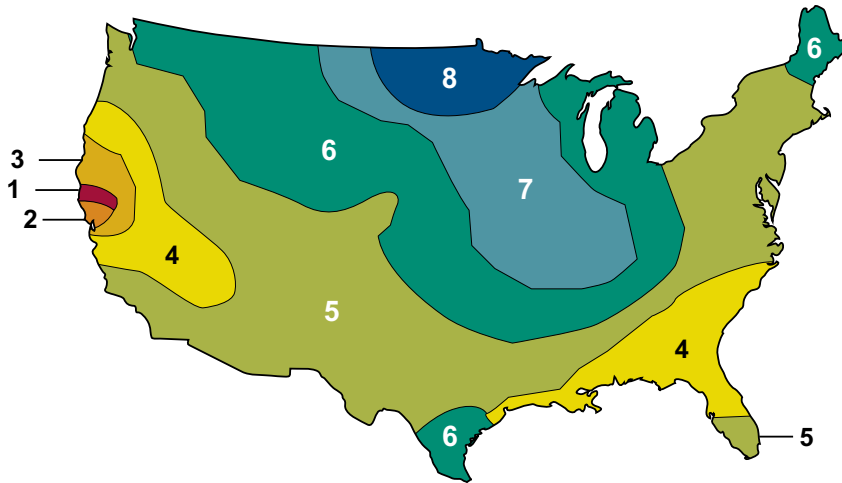
Experimental
transplant of
guppies

Pool 3–Killifish with no Guppies

Pool with killifish but no guppies
prior to transplant.



VA #9 Map of Sparrow Body Size Variations



AVERAGE MALE SPARROW SIZE

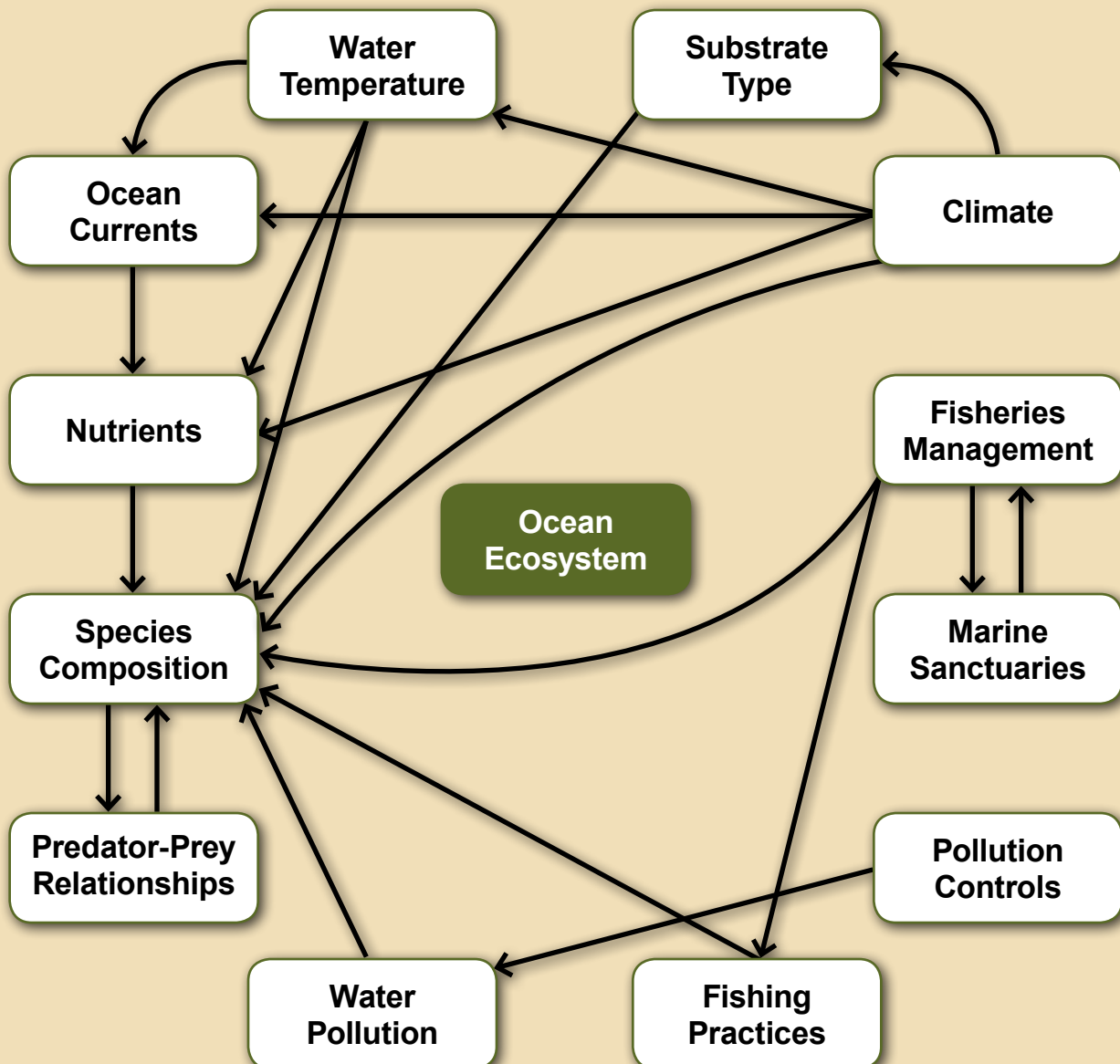


Sparrow Size

This map shows how body size of house sparrows varies across North America according to climate. Larger sparrows live in colder areas because their smaller surface-area-to-volume ratios help them retain heat.

As this map shows, sparrows in colder places tend to grow larger than sparrows in warmer locales. These differences likely represent microevolutionary change, meaning that populations descended from the same ancestors display different average phenotypes.

VA #10 Ocean Systems Diagram



VA #11 Current Sea Otter Distribution



- Current distribution of sea otters
- Successful translocations

VA #12 Effects of Human Activities on Sea Otters

Human Activity	Effects on the Survival of Sea Otters	Adaptations That Might Increase Sea Otter Survival
Habitat degradation		
Water pollution		
Boating (Trauma from human activity)		
Legislation		